





Evaluating the Safety & Efficacy of Drugs for Rare Diseases or Conditions in the

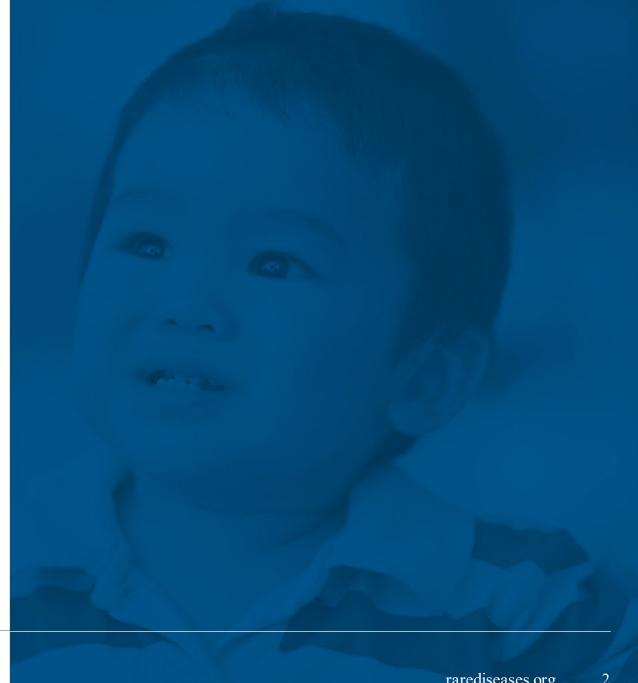
United States and the European Union

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NORD® MISSION STATEMENT

We improve the health and well-being of people with rare diseases by driving advances in care, research, and policy.



CURRENT CHALLENGES IN RARE DISEASE DRUG DEVELOPMENT







NORD's hope for this NASEM study:

- 1. Strengthen global harmonization
- 2. Protect what currently works
- 3. Identify best practices & lessons learned



Patients struggle to access approved therapies

PATIENTS & FAMILIES PLAY A KEY ROLE IN RARE DISEASE DRUG DEVELOPMENT

It's estimated that 25–30

MILLION AMERICANS (almost 1 in 10) have rare diseases.⁷

Many rare diseases result in premature deaths of infants and young children, or are fatal in early childhood.⁴

More than

O

of rare diseases are WITHOUT an FDA-approved treatment.9



genetic or have a genetic

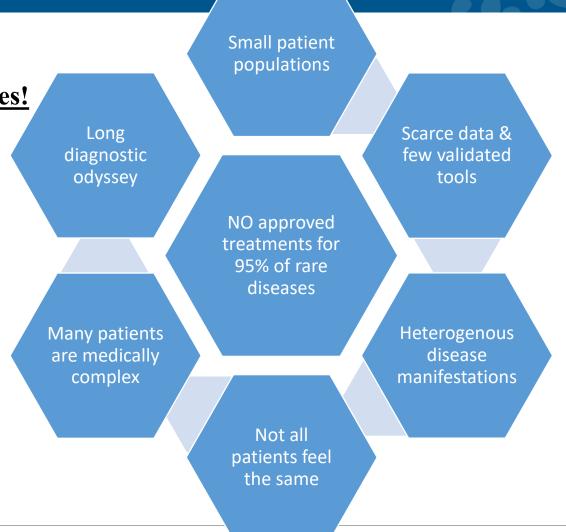
- Most rare disease patients have NO FDA-APPROVED TREATMENTS and NO CURES
- Many rare diseases have a GENETIC component and lead to PREMATURE DEATH in CHILDHOOD
- Most rare diseases have heterogenous DISEASE MANIFESTATIONS and PROGRESSIONS
- Cell & gene therapies are the only hope for a cure for many RARE DISEASE PATIENTS
- Effective treatments have completely changed the DISEASE TRAJECTORY for patients and families

KEY CHALLENGES IN RARE DISEASE DRUG DEVELOPMENT

Rare disease patients need more safe & effective therapies!

Rare Disease Drug Development:

- 1. The path to market takes too much time & money
- 2. Largely done by start-ups & pre-revenue companies
- 3. Often not in synch with coverage & reimbursement





RARE DISEASES, LIMITED PATIENT POPULATIONS, & GLOBAL CLINICAL TRIALS

Increasing international harmonization is key for rare disease drug development

Technical requirements (ICH)



Data & registries





Patient advocacy, mutual recognition agreements, etc.



ORPHAN DRUG DEVELOPMENT SIMILARITIES & DIFFERENCES IN THE U.S. / E.U.



- Prevalence threshold
- Data requirements
- Market exclusivity
- Predictability is key!





- Early interactions
- Expedited programs
- Other support programs (e.g., RDEA, ARC)



- Patient-focused drug development (PFDD)
- Patient experience data (e.g., PROMs)

patient input

• Clinical trial design, ...





OTHER ISSUES IMPACTING ORPHAN DRUG DEVELOPMENT





A FEW SPECIFIC EXAMPLES TO STRENGTHEN GLOBAL HARMONIZATION



International patient registries

Global data sharing platforms





A global view on PROMs, ClinROs, etc.

Improve alignment & international collaboration to overcome key rare disease challenges, e.g.

- Unknown natural history & disease progression
- Limited patient populations & scarce data
- Clinical trials that do not measure key outcomes that matter to patients
- Etc. etc.





THANK YOU

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